



PTO/SB/08A (08-03)

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STATEMENT BY APPLICANT**

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Sheet 1

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Application Number	10/588,091
Filing Date	July 28, 2006
First Named Inventor	John M. Stencel
Art Unit	2856
Examiner Name	
Attorney Docket Number	1284-001

U. S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
/HK/	1	US- 3,246,516	04-19-1966	N. Maropis	
	2	US- 4,184,371	01-22-1980	Brachet	
	3	US- 4,325,255	04-20-1982	Howard et al.	
	4	US- 4,624,745	11-25-1986	Sande et al.	
	5	US- 4,640,130	02-03-1987	Sheng et al.	
	6	US- 4,934,177	06-19-1990	Cuthbertson et al.	
	7	US- 5,108,655	04-28-1992	Johns, Jr. et al.	
	8	US- 5,656,428	08-12-1997	McAllister et al.	
	9	US- 5,868,859	02-09-1999	Hei et al.	
	10	US- 6,082,174	07-04-2000	Lee et al.	
	11	US- 6,385,558	05-07-2002	Schlemm	
	12	US- 6,397,665	06-04-2002	Kirts et al.	
	13	US- 6,405,580	06-18-2002	Kirts et al.	
	14	US- 6,461,414	10-08-2002	Kohl et al.	
	15	US- 6,507,790	01-14-2003	Radomski	
	16	US- 6,542,828	04-01-2003	MacDonald et al.	
	17	US- 6,590,000	07-08-2003	Varadaraj	
/HK/	18	US- 6,640,618	11-04-2003	Kirts et al.	
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FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T ⁶
		Country Code ³ *Number ⁴ *Kind Code ⁵ (if known)				
/HK/	19	EP 0 697 583	02-21-1996	Bolland		

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Sheet

2

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3

NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
/HK/	20	BOYD, VARLEY; "The uses of passive measurement of acoustic emissions from chemical engineering processes"; Chemical Engineering Science 56; 2001; pgs 1749-1767;	
/HK/		Elsevier Science Ltd.; Department of Chemical Engineering and Chemical Technology, Imperial College of Science, Technology, and Medicine; London, England	
/HK/	21	GODDARD, FORSTER; "Stable foams in activated sludge plants"; Enzyme Microb. Technol., 1987; pgs 164-168, Vol. 9; Department of Civil Engineering, Birmingham University;	
/HK/		Birmingham, England	
/HK/	22	DODSON, PH.D.; "Concrete Admixtures"; Structural Engineering Series; pgs 139-149; Van Nostrand Reinhold, New York	
/HK/	23	HOSSAIN, WUN JERN, SAY LEONG; "Control of Activated Sludge Foaming"; pgs 771-778; Dept. of Civil Engineering, National University of Singapore; Singapore	
/HK/	24	BROWN, KAUL, VARLEY; "Continuous Foaming for Protein Recovery: Part II. Selective Recovery of Proteins from Binary Mixtures"; Biotechnology and Bioengineering, Feb 1999; pgs 291-300,	
/HK/		Vol. 62, No. 3; John Wiley & Sons, Inc.; Biotechnology and Biochemical Engineering Group, Food Science and Technology Dpt., The University of Reading; Reading, England	
/HK/	25	LOCKWOOD, BUMMER, JAY; "Purification of Proteins Using Foam Fractionation"; Pharmaceutical Research, 1997; pgs 1511-1515, Vol 14, No. 11; Plenum Publishing Corporation	
/HK/	26	BANHART, STANZICK; "Metal foam evolution studied by synchrotron radiography"; App. Phys. Letters, Feb 2001; pgs 1152-1154, Vol 78, No 8; American Institute of Physics; Germany	

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NON PATENT LITERATURE DOCUMENTS

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/HK/	27	RZESZOTARSKA, REJMUND, RANACHOWSKI; "Acoustic emission measurement of foam evolution in H ₂ O-C ₂ H ₅ OH— air systems with content of detergent triton X-100"; Ultrasonics, 1998;	
/HK/		pgs 953-958; Elsevier Science B.V.; Institute of Fundamental Technological Research Problems; Warsaw, Poland	
/HK/	28	POLLOCK; "Acoustic Emission Inspection"; Physical Acoustics Corporation, Technical Report, 2003; MISTRAS Holdings Group	
/HK/	29	WILSON; "Cement and Concrete: Environmental Considerations"; Environmental Building News, March/April 1993; Vol 2, No 2; BuildingGreen, Inc.	
/HK/	30	"REACT"; Physical Acoustics Corporation, 2003; MISTRAS Holdings Group; Princeton Jct, New Jersey	
/HK/	31	WEAIRE, HUTZLER; "The Physics of Foams", 2003; Oxford Press, ISBN 0-19-851097-7	
/HK/	32	VANDEWALLE, LENTZ, DORBOLO, BRISBOIS; "Avalanches of Popping Bubbles in Collapsing Foams"; Phys. Rev. Lett., 2001; Vol. 86	
/HK/	33	HILL, MANROSS, DAVIDSON, PALMER, NUTT, ROSS; "Sensing and Control Systems: A Review of Municipal and Industrial Experiences"; WERF Report 99-WWF-4; 2002, IWA Publishing	

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